

WHAT IS CLAIMED IS:

1. A protein of the following (a) or (b):
 - (a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 1 to 14,
 - (b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 1 to 14 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein.
2. A protein according to claim 1, which comprises any one of the amino acid sequences of SEQ ID NOS: 1 to 14.
3. A nucleic acid encoding the protein according to claim 1 or 2.
4. A nucleic acid of the following (a) or (b):
 - (a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 23 to 38,
 - (b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 23 to 38 under a stringent condition and encodes a protein that interacts with a c-Fos protein.
5. A nucleic acid according to claim 4, which comprises any one of the nucleotide sequences of SEQ ID NOS: 23 to 38.
6. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises the protein according to claim 1 or 2 or a protein translated from the nucleic acid according to any one of claims 3 to 5 as an active ingredient.
7. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is the protein according to claim 1 or 2 or a protein translated from the nucleic acid according to any one of claims 3 to 5.
8. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method

according to claim 7 and the step of selecting a prey for which an interaction was detected.

9. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises a protein of the following (a) or (b) as an active ingredient:

- (a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 15 to 19,
- (b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 15 to 19 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Fos protein.

10. The inhibitor according to claim 9, wherein the protein as the active ingredient comprises any one of the amino acid sequences of SEQ ID NOS: 15 to 19.

11. The inhibitor according to claim 9, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

- (a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 39 to 43,
- (b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 39 to 43 under a stringent condition and encodes a protein that interacts with the c-Fos protein.

12. The inhibitor according to claim 11, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 39 to 43.

13. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

- (a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 15 to 19,
- (b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 15 to 19 including deletion,

substitution or addition of one or several amino acid residues and interacts with a c-Fos protein,
(a') a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 39 to 43,
(b') a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 39 to 43 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

14. The method according to claim 13, wherein the protein comprises any one of the amino acid sequences of SEQ ID NOS: 15 to 19.

15. The method according to claim 13, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 39 to 43.

16. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 13 to 15 and the step of selecting a prey for which an interaction is detected.

17. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 20 to 22,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 20 to 22 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Fos protein.

18. The inhibitor according to claim 17, wherein the protein as the active ingredient comprises any one of the amino acid sequences of SEQ ID NOS: 20 to 22.

19. The inhibitor according to claim 17, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 44 to 46,

(b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 44 to 46 under a stringent condition and encodes a protein that interacts with the c-Fos protein.

20. The inhibitor according to claim 19, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 44 to 46.

21. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 20 to 22,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 20 to 22 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein,

(a') a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 44 to 46,

(b') a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 44 to 46 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

22. The method according to claim 21, wherein the protein comprises any one of the amino acid sequences of SEQ ID NOS: 20 to 22.

23. The method according to claim 21, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 44 to 46.

24. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 21 to 23 and the step of selecting a prey for which an interaction is detected.

25. A protein of the following (a) or (b):

- (a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 47 to 56,
- (b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 47 to 56 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein.

26. A protein according to claim 25, which comprises any one of the amino acid sequences of SEQ ID NOS: 47 to 56.

27. A nucleic acid encoding the protein according to claim 25 or 26.

28. A nucleic acid of the following (a) or (b):

- (a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 104 to 118,
- (b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 104 to 118 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

29. A nucleic acid according to claim 28, which comprises any one of the nucleotide sequences of SEQ ID NOS: 104 to 118.

30. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises the protein according to claim 25 or 26 or a protein translated from the nucleic acid according to any one of claims 27 to 29 as an active ingredient.

31. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is the protein according to claim 25 or 26 or a protein translated from the nucleic acid according to any one of claims 27 to 29 as an active ingredient.

32. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to claim 31 and the step of selecting a prey for which an interaction was detected.

33. A protein of the following (a) or (b):

- (a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 57 to 76,
- (b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 57 to 76 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein.

34. A protein according to claim 33, which comprises any one of the amino acid sequences of SEQ ID NOS: 57 to 76.

35. A nucleic acid encoding the protein according to claim 33 or 34.

36. A nucleic acid of the following (a) or (b):

- (a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 119 to 140,
- (b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 119 to 140 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

37. A nucleic acid according to claim 4, which comprises any one of the nucleotide sequences of SEQ ID NOS: 119 to 140.

38. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises the protein according to claim 33 or 34 or a protein translated from the nucleic acid according to any one of claims 35 to 37 as an active ingredient.

39. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is the protein according to claim 33 or 34 or a protein translated from the nucleic acid according to any one of claims 35 to 37 as an active ingredient.

40. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to claim 39 and the step of selecting a prey for

which an interaction was detected.

41. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises a protein of the following (a) or (b) as an active ingredient:

- (a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 77 to 81,
- (b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 77 to 81 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Fos protein.

42. The inhibitor according to claim 41, wherein the protein as the active ingredient comprises any one of the amino acid sequences of SEQ ID NOS: 77 to 81.

43. The inhibitor according to claim 41, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

- (a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 141 to 145,
- (b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 141 to 145 under a stringent condition and encodes a protein that interacts with the c-Fos protein.

44. The inhibitor according to claim 43, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 141 to 145.

45. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

- (a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 77 to 81,
- (b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 77 to 81 including deletion, substitution or addition of one or several amino acid

residues and interacts with a c-Fos protein,
(a') a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 141 to 145,
(b') a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 141 to 145 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

46. The method according to claim 45, wherein the protein comprises any one of the amino acid sequences of SEQ ID NOS: 77 to 81.

47. The method according to claim 45, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 141 to 145.

48. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 45 to 47 and the step of selecting a prey for which an interaction is detected.

49. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises a protein of the following (a) or (b) as an active ingredient:

- (a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 82 to 84,
- (b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 82 to 84 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Fos protein.

50. The inhibitor according to claim 49, wherein the protein as the active ingredient comprises any one of the amino acid sequences of SEQ ID NOS: 82 to 84.

51. The inhibitor according to claim 49, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

- (a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 146 to 148,
- (b) a nucleic acid that hybridizes with a nucleic acid

comprising any one of the nucleotide sequences of SEQ ID NOS: 146 to 148 under a stringent condition and encodes a protein that interacts with the c-Fos protein.

52. The inhibitor according to claim 51, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 146 to 148.

53. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 82 to 84,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 82 to 84 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein,

(a') a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 146 to 148,

(b') a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 146 to 148 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

54. The method according to claim 53, wherein the protein comprises any one of the amino acid sequences of SEQ ID NOS: 82 to 84.

55. The method according to claim 53, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 146 to 148.

56. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 53 to 55 and the step of selecting a prey for which an interaction is detected.

57. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein,

which comprises a protein of the following (a) or (b) as an active ingredient:

- (a) a protein comprising the amino acid sequence of SEQ ID NO: 85 or 86,
- (b) a protein that comprises the amino acid sequence of SEQ ID NO: 85 or 86 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Fos protein.

58. The inhibitor according to claim 57, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 85 or 86.

59. The inhibitor according to claim 57, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

- (a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 149 or 150,
- (b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 149 or 150 under a stringent condition and encodes a protein that interacts with the c-Fos protein.

60. The inhibitor according to claim 59, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 149 or 150.

61. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

- (a) a protein comprising the amino acid sequence of SEQ ID NO: 85 or 86,
- (b) a protein that comprises the amino acid sequence of SEQ ID NO: 85 or 86 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein,
- (a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 149 or 150,

(b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 149 or 150 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

62. The method according to claim 61, wherein the protein comprises the amino acid sequence of SEQ ID NO: 85 or 86.

63. The method according to claim 61, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 149 or 150.

64. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 61 to 63 and the step of selecting a prey for which an interaction is detected.

65. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 87 to 89,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 87 to 89 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Fos protein.

66. The inhibitor according to claim 65, wherein the protein as the active ingredient comprises any one of the amino acid sequences of SEQ ID NOS: 87 to 89.

67. The inhibitor according to claim 65, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 151 to 153,

(b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 151 to 153 under a stringent condition and encodes a protein that interacts with the c-Fos protein.

68. The inhibitor according to claim 67, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 151 to 153.

69. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 87 to 89,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 87 to 89 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein,

(a') a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 151 to 153,

(b') a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 151 to 153 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

70. The method according to claim 69, wherein the protein comprises any one of the amino acid sequences of SEQ ID NOS: 87 to 89.

71. The method according to claim 70, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 151 to 153.

72. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 69 to 71 and the step of selecting a prey for which an interaction is detected.

73. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID

NO: 90 or 91,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 90 or 91 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Fos protein.

74. The inhibitor according to claim 73, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 90 or 91.

75. The inhibitor according to claim 74, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 154 or 155,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 154 or 155 under a stringent condition and encodes a protein that interacts with the c-Fos protein.

76. The inhibitor according to claim 75, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 154 or 155.

77. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising the amino acid sequence of SEQ ID NO: 90 or 91,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 90 or 91 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein,

(a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 154 or 155,

(b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 154 or 155 under a stringent condition and encodes a protein that

interacts with a c-Fos protein.

78. The method according to claim 69, wherein the protein comprises the amino acid sequence of SEQ ID NO: 90 or 91.

79. The method according to claim 70, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 154 or 155.

80. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 77 to 79 and the step of selecting a prey for which an interaction is detected.

81. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID NO: 92 or 93,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 92 or 93 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Fos protein.

82. The inhibitor according to claim 81, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 92 or 93.

83. The inhibitor according to claim 82, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 156 or 157,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 156 or 157 under a stringent condition and encodes a protein that interacts with the c-Fos protein.

84. The inhibitor according to claim 83, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 156 or 157.

85. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising the amino acid sequence of SEQ ID NO: 92 or 93,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 92 or 93 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein,

(a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 156 or 157,

(b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 156 or 157 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

86. The method according to claim 85, wherein the protein comprises the amino acid sequence of SEQ ID NO: 92 or 93.

87. The method according to claim 85, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 156 or 157.

88. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 85 to 87 and the step of selecting a prey for which an interaction is detected.

89. An inhibitor for an interaction between a protein that interacts with the c-Fos protein and the c-Fos protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID NO: 94 or 95,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 94 or 95 including deletion, substitution or

addition of one or several amino acid residues and interacts with the c-Fos protein.

90. The inhibitor according to claim 89, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 94 or 95.

91. The inhibitor according to claim 90, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 158 or 159,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 158 or 159 under a stringent condition and encodes a protein that interacts with the c-Fos protein.

92. The inhibitor according to claim 83, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 158 or 159.

93. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising the amino acid sequence of SEQ ID NO: 94 or 95,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 94 or 95 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein,

(a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 158 or 159,

(b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 158 or 159 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

94. The method according to claim 93, wherein the protein comprises the amino acid sequence of SEQ ID NO: 94

or 95.

95. The method according to claim 93, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 158 or 159.

96. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 93 to 95 and the step of selecting a prey for which an interaction is detected.

97. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID NO: 96 or 97,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 96 or 97 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Fos protein.

98. The inhibitor according to claim 97, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 96 or 97.

99. The inhibitor according to claim 98, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 160 or 161,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 160 or 161 under a stringent condition and encodes a protein that interacts with the c-Fos protein.

100. The inhibitor according to claim 99, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 160 or 161.

101. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the

contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising the amino acid sequence of SEQ ID NO: 96 or 97,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 96 or 97 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein,

(a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 160 or 161,

(b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 160 or 161 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

102. The method according to claim 101, wherein the protein comprises the amino acid sequence of SEQ ID NO: 96 or 97.

103. The method according to claim 101, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 160 or 161.

104. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 101 to 103 and the step of selecting a prey for which an interaction is detected.

105. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID NO: 98 or 99,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 98 or 99 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Fos protein.

106. The inhibitor according to claim 105, wherein

the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 98 or 99.

107. The inhibitor according to claim 98, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 162 or 163,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 162 or 163 under a stringent condition and encodes a protein that interacts with the c-Fos protein.

108. The inhibitor according to claim 107, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 162 or 163.

109. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising the amino acid sequence of SEQ ID NO: 98 or 99,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 98 or 99 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein,

(a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 162 or 163,

(b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 162 or 163 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

110. The method according to claim 109, wherein the protein comprises the amino acid sequence of SEQ ID NO: 98 or 99.

111. The method according to claim 109, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID

NO: 162 or 163.

112. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 109 to 111 and the step of selecting a prey for which an interaction is detected.

113. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID NO: 100 or 101,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 100 or 101 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Fos protein.

114. The inhibitor according to claim 113, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 100 or 101.

115. The inhibitor according to claim 114, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 164 or 165,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 164 or 165 under a stringent condition and encodes a protein that interacts with the c-Fos protein.

116. The inhibitor according to claim 115, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 164 or 165.

117. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

- (a) a protein comprising the amino acid sequence of SEQ ID NO: 100 or 101,
- (b) a protein that comprises the amino acid sequence of SEQ ID NO: 100 or 101 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein,
- (a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 164 or 165,
- (b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 164 or 165 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

118. The method according to claim 117, wherein the protein comprises the amino acid sequence of SEQ ID NO: 100 or 101.

119. The method according to claim 117, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 164 or 165.

120. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 117 to 119 and the step of selecting a prey for which an interaction is detected.

121. A protein of the following (a) or (b):

- (a) a protein comprising the amino acid sequence of SEQ ID NO: 102,
- (b) a protein that comprises the amino acid sequence of SEQ ID NO: 102 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein.

122. A nucleic acid encoding the protein according to claim 102.

123. A nucleic acid of the following (a) or (b):

- (a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 166,
- (b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 166 under

a stringent condition and encodes a protein that interacts with a c-Fos protein.

124. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises the protein according to claim 121 or a protein translated from the nucleic acid according to claim 122 or 123 as an active ingredient.

125. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is the protein according to claim 121 or a protein translated from the nucleic acid according to claim 122 or 123 as an active ingredient.

126. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to claim 125 and the step of selecting a prey for which an interaction was detected.

127. A protein of the following (a) or (b):

(a) a protein comprising the amino acid sequence of SEQ ID NO: 103,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 103 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Fos protein.

128. A nucleic acid encoding the protein according to claim 127.

129. A nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 167,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 167 under a stringent condition and encodes a protein that interacts with a c-Fos protein.

130. An inhibitor for an interaction between a protein that interacts with a c-Fos protein and the c-Fos protein, which comprises the protein according to claim 127

or a protein translated from the nucleic acid according to claim 128 or 129 as an active ingredient.

131. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is the protein according to claim 127 or a protein translated from the nucleic acid according to claim 128 or 129 as an active ingredient.

132. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to claim 131 and the step of selecting a prey for which an interaction was detected.